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PURCELLVILLE FIRE AND RESCUE

500 MAPLE AVE, BUILDING #  
PURCELLVILLE, VIRGINIA

SYMBOLS, LEGENDS, AND ABBREVIATIONS -  
FIRE PROTECTION

## FIRE PROTECTION

SYMBOL	DESCRIPTION
●	PENDENT SPRINKLER HEAD
○	UPRIGHT SPRINKLER HEAD
▼	SIDE WALL SPRINKLER HEAD
⊗	PIPE RISER
⊙	DRAIN RISER
C	PIPE DROP
⌋	BOTTOM TEE CONNECTION
{	BREAK IN LINE
└	PIPE CAP
⊙	WATER FLOW SWITCH
⊗	TAMPER SWITCH
⊗	VALVE WITH TAMPER SWITCH
⌋	CHECK VALVE
⊗	VALVE CONTROL STATION
⊗	BACK FLOW PREVENTER ASSEMBLY
└	FIRE DEPARTMENT CONNECTION
⌋	WATER MOTOR GONG
⊗	ALARM CHECK VALVE ASSEMBLY
OH-1	ORDINARY HAZARD GROUP 1
OH-2	ORDINARY HAZARD GROUP 2

### PIPING/LINE DESIGNATIONS

—	NEW PIPING
— ETR —	EXISTING TO REMAIN
- - - - -	PIPING TO BE REMOVED
- - - - -	DRAIN PIPING
- - - - -	UNDERGROUND PIPING
- - - - -	ZONE OUTLINE
- · - · - · - · -	HAZARD OUTLINE
=====	AREA OF WORK

### TYPICAL ANNOTATION

☁	AREA OF REVISION
△	REVISION SEQUENCE NUMBER
ⓧ	KEYED NOTE
ⓧ	DEMOLITION KEYED NOTE
●	POINT OF CONNECTION TO EXISTING SYSTEM
●	POINT OF DISCONNECTION OF EXISTING SYSTEM
● ●	DETAIL NUMBER
● ●	DRAWING NUMBER
△	SECTION LETTER
△ ● ●	SECTION DRAWING NUMBER

### GENERAL NOTES

- SOME LEGEND SYMBOLS MAY NOT BE USED. SEE FLOOR PLAN DRAWINGS FOR APPLICABLE DEVICES.
- THESE NOTES ARE GENERAL IN NATURE AND PERTAIN TO THE ENTIRE PROJECT UNLESS OTHERWISE NOTED AS SUCH ON AN INDIVIDUAL DRAWING.
- PRIOR TO BIDDING, THE CONTRACTOR SHALL EXAMINE ALL PROJECT DRAWINGS AND SPECIFICATIONS TO DEVELOP A COMPLETE UNDERSTANDING OF THE PROJECT SCOPE. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING. FAILURE TO DO THIS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM ALL REQUIRED WORK. THE CONTRACTOR SHALL ADVISE THE PROFESSIONAL OF ANY DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL PERTINENT CODES AND REGULATIONS. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S WRITTEN INSTRUCTIONS, AND RECOGNIZED INDUSTRY PRACTICES. ALL EQUIPMENT, DEVICES, AND MATERIALS SHALL BE UL LISTED AND FM APPROVED.
- THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING ALL REQUIRED INFORMATION TO THE AUTHORITY HAVING JURISDICTION TO OBTAIN THE NECESSARY PERMITS AND APPROVALS. ALL FEES ASSOCIATED WITH THIS SUBMISSION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS AND BE RESPONSIBLE FOR ALL FEES CHARGED BY THE AUTHORITY HAVING JURISDICTION FOR SUCH INSPECTIONS.
- REFER TO THE ARCHITECTURAL PLANS FOR DIMENSIONS, ROOM FINISHES, FIRE WALLS, AND LIKE ITEMS. REFER TO THE STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBERS. REFER TO OTHER TRADES PLANS TO UNDERSTAND THE EXTENT OF THEIR WORK AS REQUIRED.
- DO NOT SCALE DRAWINGS. HOLD INDICATED DIMENSIONS WHERE SHOWN. RESOLVE ANY DISCREPANCIES WITH THE PROFESSIONAL PRIOR TO BEGINNING WORK.
- PROVIDE A NEW COMPLETE SPRINKLER SYSTEM AS DESCRIBED IN THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS. THE WORK COVERED UNDER THIS CONTRACT INCLUDES THE FURNISHING OF ALL EQUIPMENT, LABOR, AND MATERIALS TO PROVIDE A COMPLETE SYSTEM IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND REFERENCED CODES.
- THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING A WATER FLOW TEST AND SUBMITTING THE INFORMATION TO THE PROFESSIONAL.
- THE LAYOUT ON THE DRAWINGS IS DIAGRAMMATIC. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS BETWEEN STRUCTURAL ELEMENTS AS WELL AS PIPING, DUCTWORK, ELECTRICAL, AND ARCHITECTURAL WORK. PROVIDE OFFSETS, TRANSITIONS IN PIPING, AND AUXILIARY LOW POINT DRAINS AS REQUIRED TO AVOID INTERFERENCES AT NO ADDITIONAL COST TO THE PROJECT.
- THE DRAWINGS DO NOT SHOW ALL OF THE HEADS REQUIRED. ANY HEADS SHOWN ON THE DRAWINGS ARE INTENDED TO SHOW THE INTENT OF THE LAYOUT WITH RESPECT TO ARCHITECTURAL AND OTHER TRADES WORK. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE FINAL PLACEMENT OF ALL SPRINKLER HEADS IN ACCORDANCE WITH NFPA 13.
- ALL PIPING SHALL BE CONCEALED IN AREAS WITH CEILINGS. PIPING SHALL BE EXPOSED IN AREAS WITHOUT CEILINGS. CONTRACTOR SHALL COORDINATE ROUTINGS WITHIN THESE EXPOSED AREAS TO PRODUCE A SYMMETRIC AND AESTHETIC PIPE AND HEAD LAYOUT.
- THE AUTOMATIC SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY DESIGNED IN ACCORDANCE WITH THE AREA/DENSITY METHOD REQUIREMENTS OF NFPA 13. THE ROOM DESIGN METHOD SHALL NOT BE USED. THE FOLLOWING C-FACTORS SHALL BE UTILIZED IN THE CALCULATIONS: CEMENT LINED CAST OR DUCTILE IRON PIPE C = 120, BLACK STEEL IN WET PIPE SYSTEMS C = 110.
- ALL AREAS NOT OTHERWISE SHOWN AS A HIGHER HAZARD CLASS SHALL BE DESIGNATED AS LIGHT HAZARD.
- ALL THREADED PIPE SHALL BE SCHEDULE 40. MINIMUM PIPE SIZE IS 1".
- PIPE HANGERS SHALL COMPLY WITH IBC AND NFPA REQUIREMENTS FOR SEISMIC BRACING.
- ALL EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES AND ARCHITECTURAL AND STRUCTURAL FEATURES.
- FIRE STOPPING FOR ALL PIPES PENETRATING FIRE RATED WALLS AND SEALING OF SMOKE BARRIERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, THE UL LISTING, AND THE SPECIFICATIONS TO MAINTAIN THE RATING.
- CONTRACTOR SHALL REPLACE IN KIND ALL CEILING TILES DAMAGED DURING INSTALLATION AT NO ADDITIONAL COST.
- CONTRACTOR SHALL REPAINT OR REFINISH ANY AREA IN KIND IF INSTALLATION DEFACES EXISTING WALLS, FLOORS, OR CEILINGS.
- AFTER ALL EQUIPMENT IS INSTALLED, IT SHALL BE TESTED IN ACCORDANCE WITH NFPA 13 AND THE SPECIFICATIONS. EQUIPMENT NOT OPERATING CORRECTLY SHALL BE FIELD CORRECTED OR REPLACED. THE OWNER'S REPRESENTATIVE, PROFESSIONAL, AND AUTHORITY HAVING JURISDICTION SHALL BE PRESENT FOR THE TEST.
- THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS ARE PERFORMANCED BASED. THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITAL TO THE LOCAL AHJ THREE (3) SETS OF SHOP DRAWINGS AND HYDRAULIC CALCULATIONS INDICATING THE SPRINKLER SYSTEM LAYOUT INCLUDING FINAL HEAD LOCATIONS. THE PROFESSIONAL SHALL REVIEW THE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS PRIOR TO THE DEFERRED SUBMISSION TO THE AHJ AND PROVIDE NOTATION ON THE DRAWINGS INDICATING THEY WERE REVIEWED AND APPROVED BY THE PROFESSIONAL. SUBMIT APPROVED DRAWINGS AND CALCULATIONS WITH THE REQUIRED APPLICATION FEE PRIOR TO INSTALLATION.
- PROVIDE FIREPROOFING AT ALL PIPING AND HANGER PENETRATIONS OF THE FIRE RATED ASSEMBLY INSTALLED AT THE UNDERSIDE OF THE ROOF TRUSSES.

BID SET

KEY PLAN

REVISIONS:

ISSUES:  
9-26-07 BID SET

STAMP AND SEAL:

DATE: 09-26-07 SCALE: AS NOTED

PROJECT NO. 0611

SHEET: FP-000